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DW - 198725
IC - B01D53/36; B01J23/46; F01N3/20
IN - MINAMI M
LNKA- 1987-072992; 1987-130919
M3 - [01] A100 A200 A220 A256 A300 A313 A400 A423 A426 A500 A540 A542 A600
A657 A700 A758 A800 A940 C108 C730 M411 M424 M720 M730 M740 M903 M904
Q421 Q431 Q436 Q439 Q508; 8725-D8901-C 8725-D8901-P
MC - E10-J02D E31-H01 E31-N05B E34 E35 H06-C03 J01-E02D J04-E04A N02 N03
PA - (TOYT) TOYOTA JIDOSHA KK
PN - JP62106845 A 19870518 DW198725
PR - JP19850247659 19851105
XIC - B01D-053/36; B01J-023/46; F01N-003/20
AB - In exhaust gas purifying appts. where first converter in which first catalyst is contained and second converter in which second catalyst is contained are connected by pipes to internal combustion engine in this order, first catalyst consists of substrate, catalyst support layer of perovskite complex oxide RBO₃ or R_{1-x}A_xBO₃ and catalyst metals contg. at least Rh which is supported on catalyst support layer. In the formulae, R = element of Gp.IIa, IIb or (IIIa, B = element (other than R) of Gp. Ia, Ib, IIa, IIb, IIIa, IIIb, IVa, IVb, Va, Vb, VIa, or VIIa, A = element (other than R and B) of Gp. Ia, Ib, IIa, IIb, IIIb, IVa, IVb, Va, VIa or VIIa.
Preferred materials; as substrate is used cordierite, mullite, alpha-alumina, magnesia or spinel etc. Perovskite complex oxides are RCeO₃, RZrO₃, RMnO₃ (R=Ba or Ca) CeAlO₃, LaAlO₃, LaFeO₃ and LaV₂O₅, etc. Second catalyst consists of substate, catalyst support layer of activated alumina and catalyst metals. First converter is placed near exhaust manifold of engine or motorcar and second converter is placed on underside of motorcar.
- ADVANTAGE :
As perovskite complex oxide and Rh do not form solid soln. at high temp., deterioration of catalytic properties and decline of durability by heat do not occur when high temp. exhaust gas is introduced in first catalyst.
INW - MINAMI M
IW - CATALYST PURIFICATION EXHAUST GAS PEROVSKITE COMPLEX OXIDE METAL
IWW - CATALYST PURIFICATION EXHAUST GAS PEROVSKITE COMPLEX OXIDE METAL
NC - 1
NPN - 1
OPD - 1985-11-05
PAW - (TOYT) TOYOTA JIDOSHA KK
PD - 1987-05-18
TI - Catalyst for purifying exhaust gas - has 1st catalyst of perovskite complex oxide and catalyst metal